

#8/A

## SEQUENCE LISTING

<110> WALLACH, David  
KOVALENKO, Andrei  
CANTARELLA, Giuseppina

<120> INHIBITOR OF NF-kB ACTIVATOR

<130> WALLACH-25

<140> 09/671,687

<141> 2000-09-28

<150> 09/646,403

<151> 2000-09-18

<150> IL 126024

<151> 1998-09-01

<150> IL 134604

<151> 2000-02-17

<160> 4

<170> PatentIn version 3.1

<210> 1

<211> 2116

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (549)..(549)

<223> n is either a, c, g, or t.

<220>

<221> misc\_feature

<222> (562)..(562)

<223> n is either a, c, g, or t.

<220>

<221> misc\_feature

<222> (566)..(566)

<223> n is either a, c, g, or t.

<220>

<221> misc\_feature

<222> (652)..(652)

<223> n is either a, c, g, or t.

<220>

<221> misc\_feature

<222> (695)..(695)

<223> n is either a, c, g, or t.

<400> 1

gccacgaagg cccagacttt gaccgttctt caccaccact ccagctctct cctgtgaact

60

cactgaccac cgagaacaga ttccactctt taccattcag tctcaccaag atgcccaata 120  
ccaatggaag tattggccac agtccacttt ctctgtcage ccagtctgta atggaagagc 180  
taaacactgc acccggtccaa gagagtccac ccttggccat gcctcctggg aactcacatg 240  
gtctagaagt ggggtcattg gctgaagtta aggagaaccc tcctttctat ggggtaatcc 300  
gttggatcgg tcagccacca ggactgaatg aagtgtctgc tggactggaa ctggaagatg 360  
agtgtgcagg ctgtacggat ggaaccttca gaggcactcg gtatttcacc tgtgcctga 420  
agaaggcgct gtttgtgaaa ctgaagagct gcaggcctga ctctaggttt gcatcattgc 480  
agccgggttc caatcaagat tgagcgtgtt aactctttag ctttggagg ctacttaagt 540  
gaagtagtng aagaaaatac tnccanccaa aaatggaaaa agaargcttg gagataatga 600  
ttggggaaag aagaaaggca tccaaggggc attacaattc ttgktactta gnactcaacc 660  
ttattctkgc ttatttkgct tttagtctctg ttctnggaca ctggtgttac tttagacccc 720  
aaagaaaaag aaacgatgtt agaataattw wkwgmmaccc aagagctact gaggacagaa 780  
attgttaatc ctctgagaat atatggatat gtgtgtgcc aaaaaattat gaaactgagg 840  
aaaataactg aaaagggtgga ggctgcacga ggatttacct ctgaagaaaa agatcctgag 900  
gaattcttga atattctgtt tcatcatatt ttaagggtag aaccttcgtt aaaaataaga 960  
tcagcaggtc aaaaggtaaa agattgttac ttctatcaaa tttttatgga aaaaaatgag 1020  
aaagttggcg tccccacaat tcagcagttg ttagaatggc cttttatcaa cagtaacctg 1080  
aaatttgcag aggcaccatc atgtctgatt attcagatgc ctcgatttgg aaaagacttt 1140  
aaactattta aaaaattttt ccttctctgg aattagatat aacagattta cttgaagaca 1200  
cccagacag tgccggatat gtggagggct tgcaatgtat gagtgtgaaga atgctacgac 1260  
gatccggaca ccagctggaa aaacaagcag ttttgtaaaa cctgcaacac tcaagtccac 1320  
cttcatccga agaggctgaa tcataaatat aaccagtggt cacttcccaa agacttaccc 1380  
cgactgggag attggagaca cggctgcac ccttgccaga atatggagtt atttgcctgt 1440  
ctctgcatag aaacaagcca ctatgttctt ttgtgaagt atgggaagga cgattctgcc 1500  
tggtctctct ttggacagca tggccgatcc gggatggtgg tcagaatggc tcaacattcc 1560  
cccagtcmc cmtgscoca gaagtaggag agtacttggg agatgtctcc tgggaagacc 1620  
tgsawtycct tggactccca ggagaatccc aaggctgtgc acgaagactg ctttgtgatg 1680  
ccatatatgt gccatgtacc cagagtccaa caatgagttt gtacaaataa ctgggggtca 1740  
tcgggaaaag caaagaaact ggaaggcaga gtccctaacc ttgcatctta ttcggagctg 1800  
gcagttctgt tcacgggtcca ttgccggcaa tggatgtctt tgtggtgatg atccttcaga 1860  
aaaggatgcc tctgtttaaa aacaaattgc ttttgtgtcc ctgaagtatt taataagaag 1920

cattttgcac tctagaaagt atgrrttggt tggrrtttta agaagtctaa atgaagttat 1980  
taataacctga agctttaagt taagtgcatt gatcataatga tarrttttgga agcatacaat 2040  
tttaattgtc gaagtttaaa gcctctttta gtccattgag aatgtaaata aatgtgtctt 2100  
crrtatggaa aaaaaa 2116

<210> 2  
<211> 3715  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (18)..(18)  
<223> n is either a, c, g, or t.

<220>  
<221> misc\_feature  
<222> (22)..(22)  
<223> n is either a, c, g, or t.

<220>  
<221> misc\_feature  
<222> (756)..(756)  
<223> n is either a, c, g, or t.

<220>  
<221> misc\_feature  
<222> (1348)..(1348)  
<223> n is either a, c, g, or t.

<400> 2  
ggggttttct tttacaentc tncggtaccg aactcggatc cactagtaac gggccgccag 60  
tgtgctggaa attcggcacg aggggtgtgg gagccggggc cggcccgga cgcggtctgg 120  
ggagccgggg cgagggggcga cgcccgccg cccgagttc cccctttota ggggtaggat 180  
ggttctacac agccaccgg agttccttag ttgaaagggt cgccctgctg tgacagaatg 240  
tggttaattgt aatctttaac attttcatgt aaaacatatt tcttgatcat ctttccattg 300  
tcttcatgga aaattgataa atatttgtgc cttccaactc tcgtcttggc tgaatgactt 360  
catcttaata caacatggac accacgttgc tgaaaacatg ctttgggact gccactgaat 420  
ttatcttttg cggttttatg acaaagttat tagtagttc ccttttttga attagtattt 480  
tgaagttaat atcacaatga gttcaggctt atggagcoaa gaaaaagtca cttcacccca 540  
ctgggaagag cggatttttt acttgottct tcaagaatgc agcgttacag acaaacaaac 600  
acaaaagctc cttaaagtac cgaagggaag tataggacag tatattcaag atcgttctgt 660  
ggggcattca aggattcctt ctgcaaaagg caagaaaaat cagattggat taaaaattct 720

agagcaacct catgcagttc tctttggtga tgaaanggat gttgtagaga taaatgaaaa 780  
gttcacagag ttacttttgg caattaccaa ttgtgaggag aggttcagcc tgtttaaaaa 840  
cagaaacaga ctaagtaaag gcttccaaat agacgtgggc tgtcctgtga aagtacagct 900  
gagatctggg gaagaaaaat ttcctggagt tgtacgcttc agaggacccc tgttagcaga 960  
gaggacagtc tccggaatat tctttggagt tgaattgctg gaagaaggtc gtggtcaagg 1020  
tttcaactgac ggggtgtacc aagggaaaca gctttttcag tgtgatgaag attgtggcgt 1080  
gtttgttgca ttggacaagc tagaactcat agaagatgat gacactgcat tggaaagtga 1140  
ttacgcaggt cctggggaca caatgcaggt cgaacttctc cctttggaaa taaactccag 1200  
agtttctttg aaggggtggag aaacaataga atctggaaca gttatatctt gtgatgtttt 1260  
gccaggaaaa gaaagcttag gatattttgt tgggtgtggac atggataacc ctattggcaa 1320  
ctgggatgga agatttgatg gagtgcanc tttgtagtttt gcgtgtgttg aaagtacaat 1380  
tctattgcac atcaatgata tcatccaga gagtgtgacg caggaaagga ggctcccaa 1440  
acttgccttt atgtcaagag gtgttgggga caaaggttca tccagtcata ataaaccaa 1500  
ggctacagga tctacctcag accctggaaa tagaamcaga tctgaattat tttatacctt 1560  
aaatgggtct tctgttgact cacaaccaca atccaaatca aaaaatacat ggtacattga 1620  
tgaagttgca gaagacctg caaaatctct tacagagata tctacagact ttgaccgttc 1680  
ttcaccacca ctccagctc ctctgtgaa ctcaactgacc accgagaaca gattccactc 1740  
tttaccattc agtctacca agatgcccaa taccaatgga agtattggcc acagtccact 1800  
ttctctgtca gccagctctg taatggaaga gctaaacact gcaccgctcc aagagagtcc 1860  
accttggcc atgctcctct ggaactcaca tgggtctagaa gtgggctcat tggctgaagt 1920  
taaggagaac cctcctttct atggggtaat ccgttggatc ggtcagccac caggactgaa 1980  
tgaagtgtct gctggactgg aactggaaga tgagtgtgca ggtgttacgg atggaacctt 2040  
cagaggcact cggatatttc cctgtgccct gaagaaggcg ctgtttgtga aactgaagag 2100  
ctgcaggcct gactctaggt ttgcatcatt gcagccggtt tccaatcaga ttgagcgtg 2160  
taactcttta gcatttgag gctacttaag tgaagtagta gaagaaaaata ctccaccaa 2220  
aatggaaaaa gaaggcttg agataatgat tgggaagaag aaaggcatcc agggtcatta 2280  
caattcttgt tacttagact caaccttatt ctgcttattt gcttttagtt ctgttctgga 2340  
cactgtgtta cttagacca aagaaaagaa cgatgtagaa tattatagtg aaaccaaga 2400  
gtactgagg acagaaattg ttaatcctct gagaatatat ggatattgtg gtgccacaaa 2460  
aattatgaaa ctgaggaaaa tacttgaaaa ggtggaggct gcacaggat ttacctctga 2520  
agaaaaagat cctgaggaat tcttgaatat tctgtttcat catattttaa gggtagaacc 2580  
tttgctaaaa ataagatcag caggtaaaaa ggtacaagat tgttacttct atcaaatttt 2640

tatggaaaaa aatgagaaaag ttggcggtcc cacaattcag cagttgttag aatgggtcttt 2700  
 tatcaacagt aacctgaaat ttgcagaggg accatcatgt ctgattatc agatgcctcg 2760  
 atttggaaaa gacrttaaac tatttaaaaa aatttttcct totctggaat taaatataac 2820  
 agatttactt gaagacactc ccagacagtg ccggatatgt ggagggcttg caatgtatga 2880  
 gtgtagagaa tgctacgacg atccggacat ctgagctgga aaaatcaagc agttttgtaa 2940  
 aacctgcaac actcaagtcc accttcaccc gaagaggctg aatcataaat ataaccacgt 3000  
 gtcacttccc aaagacttac ccgactggga ctggagacac ggctgcatcc cttgccagaa 3060  
 tatggagtta tttgtgttc tctgcataga aacaagccac tatgttgctt ttgtgaagta 3120  
 tgggaaggac gattctgoot ggctcttctt tgacagcatg gccgatcggg atgggtggtca 3180  
 gaatggcttc aacattcctc aagtcacccc atgccagaa gtaggagagt acctgaagat 3240  
 gtctctggaa gacctgcatt ccttggactc caggagaatc caaggctgtg cacgaagact 3300  
 gctttgtgat gcataatagt gcatgtacca gagtccaaca atgagtttgt acaaataact 3360  
 ggggtcatcg ggaaaggcaa agaaactgaa ggcagagtcc taacgttgca tcttattoga 3420  
 gctggcagtt ctgttcacgt ccattgccgg caatggatgt ctttgtggtg atgaccttc 3480  
 agaaaaggat gcoctctgtt aaaaacaaat tgcttttgtg tccctgaagt atttaataag 3540  
 aagcattttg cactctagaa agtatgttg tgttggttt ttaagaagtc taaatgaagt 3600  
 tattaatacc tgaagcttta agttaagtgc attgatcata tgatattttt ggaagcatac 3660  
 aattttaatt gtggaagttt aaagcctctt ttagtccatt gagaatgtaa ataaa 3715

<210> 3  
 <211> 949  
 <212> PRT  
 <213> Homo sapiens

<400> 3

Met Ser Ser Gly Leu Trp Ser Gln Glu Lys Val Thr Ser Pro Tyr Trp  
 1 5 10 15

Glu Glu Arg Ile Phe Tyr Leu Leu Leu Gln Glu Cys Ser Val Thr Asp  
 20 25 30

Lys Gln Thr Gln Lys Leu Leu Lys Val Pro Lys Gly Ser Ile Gly Gln  
 35 40 45

Tyr Ile Gln Asp Arg Ser Val Gly His Ser Arg Ile Pro Ser Ala Lys  
 50 55 60

Gly Lys Lys Asn Gln Ile Gly Leu Lys Ile Leu Glu Gln Pro His Ala  
 65 70 75 80

Val Leu Phe Val Asp Glu Asp Val Val Glu Ile Asn Glu Lys Phe Thr  
85 90 95

Glu Leu Leu Leu Ala Ile Thr Asn Cys Glu Glu Arg Phe Ser Leu Phe  
100 105 110

Lys Asn Arg Asn Arg Leu Ser Lys Gly Leu Gln Ile Asp Val Gly Cys  
115 120 125

Pro Val Lys Val Gln Leu Arg Ser Gly Glu Glu Lys Phe Pro Gly Val  
130 135 140

Val Arg Phe Arg Gly Pro Leu Leu Ala Glu Arg Thr Val Ser Gly Ile  
145 150 155 160

Phe Phe Gly Val Glu Leu Leu Glu Glu Gly Arg Gly Gln Gly Phe Thr  
165 170 175

Asp Gly Val Tyr Gln Gly Lys Gln Leu Phe Gln Cys Asp Glu Asp Cys  
180 185 190

Gly Phe Val Ala Leu Asp Lys Leu Glu Leu Ile Glu Asp Asp Asp Thr  
195 200 205

Ala Leu Glu Ser Asp Tyr Ala Gly Pro Gly Asp Thr Met Gln Val Glu  
210 215 220

Leu Pro Pro Leu Glu Ile Asn Ser Arg Val Ser Leu Lys Gly Gly Glu  
225 230 235 240

Thr Ile Glu Ser Gly Thr Val Ile Phe Cys Asp Val Leu Pro Gly Lys  
245 250 255

Glu Ser Leu Gly Tyr Phe Val Gly Val Asp Met Asp Asn Pro Ile Gly  
260 265 270

Asn Trp Asp Gly Arg Phe Asp Gly Val Leu Cys Ser Phe Ala Cys Val  
275 280 285

Glu Ser Thr Ile Leu Leu His Ile Asn Asp Ile Ile Pro Glu Ser Val  
290 295 300

Thr Gln Glu Arg Arg Pro Pro Lys Leu Ala Phe Met Ser Arg Gly Val  
305 310 315 320

Gly Asp Lys Gly Ser Ser Ser His Asn Lys Pro Lys Ala Thr Gly Ser

325

330

335

Thr Ser Asp Pro Gly Asn Arg Arg Ser Glu Leu Phe Tyr Thr Leu Asn  
 340 345 350

Gly Ser Ser Val Asp Ser Gln Pro Gln Ser Lys Ser Lys Asn Thr Trp  
 355 360 365

Tyr Ile Asp Glu Val Ala Glu Asp Pro Ala Lys Ser Leu Thr Glu Ile  
 370 375 380

Ser Thr Asp Phe Asp Arg Ser Ser Pro Pro Leu Gln Pro Pro Pro Val  
 385 390 395 400

Asn Ser Leu Thr Thr Glu Asn Arg Phe His Ser Leu Pro Phe Ser Leu  
 405 410 415

Thr Lys Met Pro Asn Thr Asn Gly Ser Ile Gly His Ser Pro Leu Ser  
 420 425 430

Leu Ser Ala Gln Ser Val Met Glu Glu Leu Asn Thr Ala Pro Val Gln  
 435 440 445

Glu Ser Pro Pro Leu Ala Met Pro Pro Gly Asn Ser His Gly Leu Glu  
 450 455 460

Val Gly Ser Leu Ala Glu Val Lys Glu Asn Pro Pro Phe Tyr Gly Val  
 465 470 475 480

Ile Arg Trp Ile Gly Gln Pro Pro Gly Leu Asn Glu Val Leu Ala Gly  
 485 490 495

Leu Glu Leu Glu Asp Glu Cys Ala Gly Cys Thr Asp Gly Thr Phe Arg  
 500 505 510

Gly Thr Arg Tyr Phe Thr Cys Ala Leu Lys Lys Ala Leu Phe Val Lys  
 515 520 525

Leu Lys Ser Cys Arg Pro Asp Ser Arg Phe Ala Ser Leu Gln Pro Val  
 530 535 540

Ser Asn Gln Ile Glu Arg Cys Asn Ser Leu Ala Phe Gly Gly Tyr Leu  
 545 550 555 560

Ser Glu Val Val Glu Glu Asn Thr Pro Pro Lys Met Glu Lys Glu Gly  
 565 570 575

Leu Glu Ile Met Ile Gly Lys Lys Lys Gly Ile Gln Gly His Tyr Asn  
580 585 590

Ser Cys Tyr Leu Asp Ser Thr Leu Phe Cys Leu Phe Ala Phe Ser Ser  
595 600 605

Val Leu Asp Thr Val Leu Leu Arg Pro Lys Glu Lys Asn Asp Val Glu  
610 615 620

Tyr Tyr Ser Glu Thr Gln Glu Leu Leu Arg Thr Glu Ile Val Asn Pro  
625 630 635 640

Leu Arg Ile Tyr Gly Tyr Val Cys Ala Thr Lys Ile Met Lys Leu Arg  
645 650 655

Lys Ile Leu Glu Lys Val Glu Ala Ala Ser Gly Phe Thr Ser Glu Glu  
660 665 670

Lys Asp Pro Glu Glu Phe Leu Asn Ile Leu Phe His His Ile Leu Arg  
675 680 685

Val Glu Pro Leu Leu Lys Ile Arg Ser Ala Gly Gln Lys Val Gln Asp  
690 695 700

Cys Tyr Phe Tyr Gln Ile Phe Met Glu Lys Asn Glu Lys Val Gly Val  
705 710 715 720

Pro Thr Ile Gln Gln Leu Leu Glu Trp Ser Phe Ile Asn Ser Asn Leu  
725 730 735

Lys Phe Ala Glu Ala Pro Ser Cys Leu Ile Ile Gln Met Pro Arg Phe  
740 745 750

Gly Lys Asp Phe Lys Leu Phe Lys Lys Ile Phe Pro Ser Leu Glu Leu  
755 760 765

Asn Ile Thr Asp Leu Leu Glu Asp Thr Pro Arg Gln Cys Arg Ile Cys  
770 775 780

Gly Gly Leu Ala Met Tyr Glu Cys Arg Glu Cys Tyr Asp Asp Pro Asp  
785 790 795 800

Ile Ser Ala Gly Lys Ile Lys Gln Phe Cys Lys Thr Cys Asn Thr Gln  
805 810 815

Val His Leu His Pro Lys Arg Leu Asn His Lys Tyr Asn Pro Val Ser  
820 825 830



wallach25.ST25.txt

Leu Pro Lys Asp Leu Pro Asp Trp Asp Trp Arg His Gly Cys Ile Pro  
835 840 845

Cys Gln Asn Met Glu Leu Phe Ala Val Leu Cys Ile Glu Thr Ser His  
850 855 860

Tyr Val Ala Phe Val Lys Tyr Gly Lys Asp Asp Ser Ala Trp Leu Phe  
865 870 875 880

Phe Asp Ser Met Ala Asp Arg Asp Gly Gly Gln Asn Gly Phe Asn Ile  
885 890 895

Pro Gln Val Thr Pro Cys Pro Glu Val Gly Glu Tyr Leu Lys Met Ser  
900 905 910

Leu Glu Asp Leu His Ser Leu Asp Ser Arg Arg Ile Gln Gly Cys Ala  
915 920 925

Arg Arg Leu Leu Cys Asp Ala Tyr Met Cys Met Tyr Gln Ser Pro Thr  
930 935 940

Met Ser Leu Tyr Lys  
945

<210> 4  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic

<400> 4  
cggtgggtcag tgagttcaca ggagg

25